Docket No.

251529US96DIV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Michael R. JOHNSON

SERIAL NO: New Application

FILED:

Herewith

FOR:

SODIUM CHANNEL BLOCKERS

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR

Applicant(s) wish to disclose the following information.

REFERENCES

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references were filed in prior application Serial No. 10/076,551, filed February 19, 2002, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- □ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

James J. Ke

Registration No. 41,504

Customer Number

22850

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Form PTO 1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE 251529US96DIV					SERIAL NO. New Application			
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT	Michael	R. JOH	NSON		
				FILING DATE Herewith			GROUP		
				U.S. PATENT DO	CUMENTS				
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	1	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
	AA	4,177,285	12-04-79	Cragoe, Jr. et al.					
	AB	3,794,734	02-26-74	Cragoe, Jr. et al.					
	AC	3,864,401	02-04-75	Schultz et al.				_	
	AD	3,914,253	10-21-75	Cragoe, Jr. et al.					
	ΑE	3,929,872	12-30-75	Cragoe, Jr. et al.				-	
	AF	3,931,239	01-06-76	Cragoe, Jr. et al.					
	AG	3,953,476	04-27-76	Cragoe, Jr. et al.					
	АН	3,966,966	06-29-76	Cragoe, Jr. et al.					
	Al	4,006,180	02-01-77	Cragoe, Jr. et al.					
	AJ	4,012,524	03-15-77	Cragoe, Jr. et al.					
-	AK	4,159,279	06-26-79	Smith et al.					
	AL	4,163,781	08-07-79	Cragoe, Jr. et al.					
	AM	4,163,794	08-07-79	Cragoe, Jr. et al.					
	AN	4,085,219	04-18-78	Cragoe, Jr. et al.				- 112	
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	AW	R. Tarran et al., The CF 158, July 2001.	`		<u> </u>			ecular Cell, Vol. 8, 149-	
	AX		. Knowles et al., Amiloride in Cystic Fibrosis: Safety, Pharmacokinetics, and Efficacy in the Treatment of Disease, Chapter 20, page 301-316. chowitz et al., An Overview of the Structure Activity Relations in the Amiloride Series, Chapter 2, page 9						
	AY	Louis Simchowitz et al.,							
	AZ	J.R. Sabater et al., Aero Physiological Society, pa			gonists Enhances Muc	ociliary Cle	earance in	Sheep, The American	
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Form PTO 1449 U.S. DEPARTMENT OF COMMERCE (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT			ATTY DOCKET NO. 251529US96DIV	SERIAL NO. New Application			
			APPLICANT Michael R. JOHNSON				
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			U	S. PATENT DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	4,025,625	05-24-77	Rooney et al.			
	AB	4,196,292	04-01-80	Woltersdorf, Jr. et al.			
_	AC	4,087,526	05-02-78	Cragoe, Jr. et al.			
	AD	4,087,542	05-02-78	Cragoe, Jr. et al.			
	AE	4,092,414	05-30-78	Cragoe, Jr. et al.			
_	AF	4,100,294	07-11-78	Cragoe, Jr. et al.			
	AG	4,105,769	08-08-78	Rooney et al.			
	АН	4,140,776	02-20-79	Cragoe, Jr. et al.			
	AI	4,145,551	03-20-79	Cragoe, Jr. et al.	-		· · · · · · · · · · · · · · · · · · ·
	AJ	4,181,727	01-01-80	Cragoe, Jr. et al.			
	AK	4,237,130	12-02-80	Cragoe, Jr. et al.			
	AL	4,237,144	12-02-80	Cragoe, Jr. et al.		1	
	AM	4,277,602	07-07-81	Woltersdorf et al.		1	
	AN	4,291,050	09-22-81	Woltersdorf, Jr. et al.			
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	AW	Biology, Vol. 105, pages		and Its Analogs as Tools in the Study	of Ion Transpo	ort, The Journ	al of Membrane
		Edward C. Taylor et al.,	A Facile Rou	ite to "Open Chain" Analogues of DDA	ATHF, Heteroc	vcles, Vol. 28,	No. 2, 1989.
	AX						
!	AY	Paul-Michael Windsche 87-92, January 1994.	if et al., <u>Subs</u>	tituted Dipyridlethenes and -ethynes a	ınd Key Pyridin	e Building Blo	ocks, Synthesis, page
	AZ	Edward J. Cragoe, Jr.,	The Synthesis	s of Amiloride and Its Analogs, page 2	4-38, Chapter	3.	
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citation if no	ot in c	onformance and not	considered	. Include copy of this form with n	ext commun	ication to a	pplicant.

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF PATENT AND TRADEM				SERIAL NO. New Application		
LIST OF REFERENCES CITED BY APPLICANT			APPLICANT Michael	NSON				
			FILING DATE Herewith		GROUP			
				U.S. PATENT DOCUMENTS				
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
	AA	4,003,927	01-18-77	Woltersdorf, Jr. et al.				
	AB	4,296,122	10-20-81	Cragoe, Jr. et al.				
	AC	4,317,822	03-02-82	Woltersdorf, Jr. et al.				
	AD	4,362,724	12-07-82	Bock et al.				
	AE	4,401,669	08-30-83	Cragoe, Jr. et al.				
	AF	3,974,212	08-10-76	Cragoe, Jr. et al.				
	AG	3,984,465	10-05-76	Cragoe, Jr. et al.				
	АН	3,984,552	10-05-76	Cragoe, Jr. et al.				
	ΑI	4,067,980	01-10-78	Cragoe, Jr. et al.				
	AJ	4,085,117	04-18-78	Cragoe, Jr. et al.				
	AK	4,085,211	04-18-78	Cragoe, Jr. et al.				
	AL	4,246,406	01-20-81	Cragoe, Jr. et al.				
	AM	3,472,848	10-14-69	Edward J. Cragoe, Jr. et al.				
	AN	3,544,571	12-01-70	Edward J. Cragoe, Jr., et al.			-	
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		OTHER REF	ERENCES (Including Author, Title, Date, Pertiner	nt Pages. e	etc.)	•	
	AW	Jack H. Li, et al., Stereo	selective Blo	ckage of Amphibian Epithelial Sodium Cerapeutics, Vol. 267, No. 3, pages 1081-	Channels b	y Amiloride	Analogs, The Journal of	
	AX	Pallav L. Shah, M.D., <u>Chapter 7. Progress in the Treatment of Pulmonary Disease in Cystic Fibrosis</u> , Annual Reports in Medicinal Chemistry, Vol. 36, pages 67-76, 2001.						
	AY	Dieter Worlitzsch et al., Effects of Reduced Mucus Oxygen Concentration in Airway Pseudomonas Infections of Cystic Fibrosis Patients, The Journal of Clinical Investigation, February 2002, Volume 109, Number 3, pages 317-336.						
	AZ	Edward J. Cragoe, Jr., et al., Chapter 7: Diuretic Agents, Annual Reports in Medicinal Chemistry, 1966, page 59-68.						
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Form PTO 1449 (Modified)	9 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY DOCKET NO. 251529US96DIV	SERIAL NO. New Application			
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB FILING DATE		
	AA	3,991,106	11-09-76	Cragoe, Jr., et al.				
	AB	3,991,087	11-09-76	Cragoe, Jr. et al.	 			
	AC	3,989,749	11-02-76	Cragoe, Jr. et al.				
	AD	3,987,091	10-19-76	Cragoe, Jr. et al.				
- :-	ΑE	3,979,361	09-07-76	Schultz et al.	Ì			- 7
	AF	3,976,686	08-24-76	Cragoe, Jr. et al.				
	AG	3,976,681	08-24-76	Cragoe, Jr. et al.				
	АН	3,958,004	05-18-76	Cragoe, Jr. et al.				
	ΑI	3,956,374	05-11-76	Shepard et al.				
	AJ	3,928,624	12-23-75	Cragoe, Jr. et al.				
	AK	3,894,065	07-08-75	Cragoe, Jr. et al.				
	AL	3,668,241	06-06-72	Cragoe, Jr. et al.				
	АМ	3,625,950	12-07-71	Edward J. Cragoe, Jr.				
	AN	4,298,743	11-03-81	Cragoe, Jr. et al.				
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-	AW	Edward J. Cragoe, Jr., e	t al., <u>Chapte</u>	r 7: Diuretic Agents, Annual Reports in	n Medicinal (Chemistry,	1965, pa	age 67-77.
	AX	Robert L. Smith, et al., Chapter 8: Diuretics, Annual Reports in Medicinal Chemistry, Volume 11, pages 71-79, 1976.						
	AY	Robert L. Smith, et al., Chapter 7: Diuretics, Annual Reports in Medicinal Chemistry, Volume 13, pages 61-70, 1978.						
	AZ	Edward J. Cragoe, Jr., Structure-Activity Relationships in the Amiloride Series, Merck Sharp and Dohme Research Laboratories, 1979, pages 1-20.						Research
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Form PTO 1449 (Modified)		U.S. DEPARTMENT OF PATENT AND TRADEM	COMMERCE MARK OFFICE	ATTY DOCKET NO. 251529US96DIV			SERIAL NO. New Application		
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME		CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
	AA	3,313,813	4/11/67	Cragoe, Jr., et al.					
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	OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) T.M. Cocks, et al., British Journal of Pharmacology, 95(1), pp. 67-76 (English) 1988.								
1.	AW								
	AX	K.E. Barrett, et al., Annu. Rev. Physiol. 2000; 62, pp. 535-572.), 1991.	
	AY								
		R.F. Epand et al. Britis	h Journal of	Cancer, 63(2), 247-51 (English) 1	991				
	AZ	R.F. Epand, et al., British Journal of Cancer, 63(2), 247-51 (English) 1991.							
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